

WHAT IS CLAIMED IS:

1 1. An input device comprising:
2 a body of said device;
3 electronic circuitry mounted in said body;
4 a top housing mounted over said body;
5 a free extending button integrally formed with said top housing;
6 said extending button being depressible separately with respect to a remainder
7 of said top housing;
8 said top housing providing a cantilevered mounting of said extending button to
9 said body of said device.

1 2. The input device of claim 1 wherein the top housing and extending
2 portion are metal.

1 3. The input device of claim 1 further comprising an island mounted on
2 said body adjacent said extending button, said island having a lip extending over an edge of
3 said extending button so that a gap between said extending button and said island is not
4 visible from above.

1 4. The input device of claim 3 further comprising a second extending
2 button, said second extending button extending underneath a second lip on a side of said
3 island opposite said first mentioned extending button.

1 5. The device of claim 3 further comprising a roller extending through a
2 slot in said island.

1 6. The device of claim 5 further comprising:
2 a cantilevered arm supporting the roller and attached to an inside surface of
3 the top housing behind the roller, wherein the cantilevered arm provides a spring force to bias
4 roller upward through the slot, eliminating the need for a return spring.

1 7. The input device of claim 1 wherein said top housing curves around a
2 back of said device and attaches to said back of said device.

1 8. The input device of claim 5 further comprising a resilient bumper
2 mounted between said top housing and said body where said top housing curves around said
3 back of said device.

1 9. The input device of claim 1 further comprising:
2 a non-metallic interior housing mounted beneath said top housing between
3 said top housing and electronic circuitry inside said device;
4 wherein said top housing is metal, and said interior housing isolates said metal
5 from said electronic circuitry.

1 10. The input device of claim 1 wherein said top housing and extended
2 button have a single hinge point more than halfway toward the back of said device, such that
3 said top housing and extended button can flex on either side of said hinge point.

1 111. The input device of claim 1 wherein said device is a mouse.

1 12. A mouse comprising:
2 a body of said mouse;
3 electronic circuitry mounted in said body;
4 a top metal housing mounted over said body;
5 first and second free extending metal buttons integrally formed with said metal
6 top housing;
7 said extending buttons being depressible separately with respect to a
8 remainder of said top housing;
9 said top housing providing a cantilevered mounting of said extending buttons
10 to said body of said device;
11 an island mounted on said body between said extending buttons, said island
12 having lips extending over edges of said extending buttons so that a gap between said
13 extending buttons and said island is not visible from above.

1 13. The mouse of claim 12 further comprising a roller extending through a
2 slot in said island.

1 14. The mouse of claim 12 further comprising:
2 a cantilevered arm supporting the roller and attached to an inside surface of
3 the top housing behind the roller, wherein the cantilevered arm provides a spring force to bias
4 roller upward through the slot, eliminating the need for a return spring.